

RED LEDs

LEDR[0]	PIN_AA24	LED [0]	3.3 V
LEDR[1]	PIN_AB23	LED [1]	3.3 V
LEDR[2]	PIN_AC23	LED [2]	3.3 V
LEDR[3]	PIN_AD24	LED [3]	3.3 V
LEDR[4]	PIN_AG25	LED [4]	3.3 V
LEDR[5]	PIN_AF25	LED [5]	3.3 V
LEDR[6]	PIN_AE24	LED [6]	3.3 V
LEDR[7]	PIN_AF24	LED [7]	3.3 V
LEDR[8]	PIN_AB22	LED [8]	3.3 V
LEDR[9]	PIN_AC22	LED [9]	3.3 V

VGA pinouts

VGA_R[0]	PIN_AK29	VGA Red[0]	3.3V
VGA_R[1]	PIN_AK28	VGA Red[1]	3.3V
VGA_R[2]	PIN_AK27	VGA Red[2]	3.3V
VGA_R[3]	PIN_AJ27	VGA Red[3]	3.3V
VGA_R[4]	PIN_AH27	VGA Red[4]	3.3V
VGA_R[5]	PIN_AF26	VGA Red[5]	3.3V
VGA_R[6]	PIN_AG26	VGA Red[6]	3.3V
VGA_R[7]	PIN_AJ26	VGA Red[7]	3.3V
VGA_G[0]	PIN_AK26	VGA Green[0]	3.3V
VGA_G[1]	PIN_AJ25	VGA Green[1]	3.3V
VGA_G[2]	PIN_AH25	VGA Green[2]	3.3V
VGA_G[3]	PIN_AK24	VGA Green[3]	3.3V
VGA_G[4]	PIN_AJ24	VGA Green[4]	3.3V
VGA_G[5]	PIN_AH24	VGA Green[5]	3.3V
VGA_G[6]	PIN_AK23	VGA Green[6]	3.3V
VGA_G[7]	PIN_AH23	VGA Green[7]	3.3V
VGA_B[0]	PIN_AJ21	VGA Blue[0]	3.3V
VGA_B[1]	PIN_AJ20	VGA Blue[1]	3.3V
VGA_B[2]	PIN_AH20	VGA Blue[2]	3.3V
VGA_B[3]	PIN_AJ19	VGA Blue[3]	3.3V
VGA_B[4]	PIN_AH19	VGA Blue[4]	3.3V
VGA_B[5]	PIN_AJ17	VGA Blue[5]	3.3V
VGA_B[6]	PIN_AJ16	VGA Blue[6]	3.3V
VGA_B[7]	PIN_AK16	VGA Blue[7]	3.3V
VGA_CLK	PIN_AK21	VGA Clock	3.3V
VGA_BLANK_N	PIN_AK22	VGA BLANK	3.3V
VGA_HS	PIN_AK19	VGA H_SYNC	3.3V
VGA_VS	PIN_AK18	VGA V_SYNC	3.3V
VGA_SYNC_N	PIN_AJ22	VGA SYNC	3.3V

7-SEGMENT DISPLAYS

HEX0[0]	PIN_W17	Seven Segment Digit 0[0]	3.3 V
HEX0[1]	PIN_V18	Seven Segment Digit 0[1]	3.3 V
HEX0[2]	PIN_AG17	Seven Segment Digit 0[2]	3.3 V
HEX0[3]	PIN_AG16	Seven Segment Digit 0[3]	3.3 V
HEX0[4]	PIN_AH17	Seven Segment Digit 0[4]	3.3 V
HEX0[5]	PIN_AG18	Seven Segment Digit 0[5]	3.3 V
HEX0[6]	PIN_AH18	Seven Segment Digit 0[6]	3.3 V

HEX1[0]	PIN_AF16	Seven Segment Digit 1[0]	3.3 V
HEX1[1]	PIN_V16	Seven Segment Digit 1[1]	3.3 V
HEX1[2]	PIN_AE16	Seven Segment Digit 1[2]	3.3 V
HEX1[3]	PIN_AD17	Seven Segment Digit 1[3]	3.3 V
HEX1[4]	PIN_AE18	Seven Segment Digit 1[4]	3.3 V
HEX1[5]	PIN_AE17	Seven Segment Digit 1[5]	3.3 V
HEX1[6]	PIN_V17	Seven Segment Digit 1[6]	3.3 V

HEX2[0]	PIN_AA21	Seven Segment Digit 2[0]	3.3 V
HEX2[1]	PIN_AB17	Seven Segment Digit 2[1]	3.3 V
HEX2[2]	PIN_AA18	Seven Segment Digit 2[2]	3.3 V
HEX2[3]	PIN_Y17	Seven Segment Digit 2[3]	3.3 V
HEX2[4]	PIN_Y18	Seven Segment Digit 2[4]	3.3 V
HEX2[5]	PIN_AF18	Seven Segment Digit 2[5]	3.3 V
HEX2[6]	PIN_W16	Seven Segment Digit 2[6]	3.3 V

SLIDE SWITCHES

SW[0]	PIN_AB30	Slide Switch[0]	Depending on JP7
SW[1]	PIN_Y27	Slide Switch[1]	Depending on JP7
SW[2]	PIN_AB28	Slide Switch[2]	Depending on JP7
SW[3]	PIN_AC30	Slide Switch[3]	Depending on JP7
SW[4]	PIN_W25	Slide Switch[4]	Depending on JP7
SW[5]	PIN_V25	Slide Switch[5]	Depending on JP7
SW[6]	PIN_AC28	Slide Switch[6]	Depending on JP7
SW[7]	PIN_AD30	Slide Switch[7]	Depending on JP7
SW[8]	PIN_AC29	Slide Switch[8]	Depending on JP7
SW[9]	PIN_AA30	Slide Switch[9]	Depending on JP7

System Clocks

CLOCK_50	PIN_AF14	50 MHz Clock Input	3.3 V
CLOCK2_50	PIN_AA16	50 MHz Clock Input	3.3 V
CLOCK3_50	PIN_Y26	50 MHz Clock Input	3.3 V
CLOCK4_50	PIN_K14	50 MHz Clock Input	3.3 V
HPS_CLOCK1_25	PIN_D25	25 MHz Clock Input	3.3 V
HPS_CLOCK2_25	PIN_F25	25 MHz Clock Input	3.3 V

HEX3[0]	PIN_Y19	Seven Segment Digit 3[0]	3.3 V
HEX3[1]	PIN_W19	Seven Segment Digit 3[1]	3.3 V
HEX3[2]	PIN_AD19	Seven Segment Digit 3[2]	3.3 V
HEX3[3]	PIN_AA20	Seven Segment Digit 3[3]	3.3 V
HEX3[4]	PIN_AC20	Seven Segment Digit 3[4]	3.3 V
HEX3[5]	PIN_AA19	Seven Segment Digit 3[5]	3.3 V
HEX3[6]	PIN_AD20	Seven Segment Digit 3[6]	3.3 V

HEX4[0]	PIN_AD21	Seven Segment Digit 4[0]	3.3 V
HEX4[1]	PIN_AG22	Seven Segment Digit 4[1]	3.3 V
HEX4[2]	PIN_AE22	Seven Segment Digit 4[2]	3.3 V
HEX4[3]	PIN_AE23	Seven Segment Digit 4[3]	3.3 V
HEX4[4]	PIN_AG23	Seven Segment Digit 4[4]	3.3 V
HEX4[5]	PIN_AF23	Seven Segment Digit 4[5]	3.3 V
HEX4[6]	PIN_AH22	Seven Segment Digit 4[6]	3.3 V

HEX5[0]	PIN_AF21	Seven Segment Digit 5[0]	3.3 V
HEX5[1]	PIN_AG21	Seven Segment Digit 5[1]	3.3 V
HEX5[2]	PIN_AF20	Seven Segment Digit 5[2]	3.3 V
HEX5[3]	PIN_AG20	Seven Segment Digit 5[3]	3.3 V
HEX5[4]	PIN_AE19	Seven Segment Digit 5[4]	3.3 V
HEX5[5]	PIN_AF19	Seven Segment Digit 5[5]	3.3 V
HEX5[6]	PIN_AB21	Seven Segment Digit 5[6]	3.3 V

PUSH BUTTONS

KEY[0]	PIN_AJ4	Push-button[0]	3.3 V
KEY[1]	PIN_AK4	Push-button[1]	3.3 V
KEY[2]	PIN_AA14	Push-button[2]	3.3 V
KEY[3]	PIN_AA15	Push-button[3]	3.3 V

PS2 keyboard

PS2_CLK	PIN_AB25	PS/2 Clock	3.3V
PS2_DAT	PIN_AA25	PS/2 Data	3.3V
PS2_CLK2	PIN_AC25	PS/2 Clock	3.3V
PS2_DAT2	PIN_AB26	PS/2 Data	3.3V

LCD Module

HPS_LCM_D_C	PIN_C18	HPS LCM Data bit is Data/Command
HPS_LCM_RST_N	PIN_E17	HPS LCM Reset
HPS_LCM_SPIM_CLK	PIN_A23	SPI Clock
HPS_LCM_SPIM_MOSI	PIN_C22	SPI Master Output/ Slave Input
HPS_LCM_SPIM_SS	PIN_H20	SPI Slave select

HPS - Hard Processor System

LCM - liquid crystal module

SPIM -